CLAIMS

1. A vehicle assignment management device, comprising:

a route notification unit that notifies a target vehicle of a route along which the target vehicle will run;

a position-receiving unit that receives position information at a plurality of timings from each of a plurality of vehicles including the target vehicle;

a range notification unit that notifies the target vehicle of a permissible range representing a range in which the target vehicle can run on the basis of the position information of the plurality of vehicles at a plurality of timings;

a destination input unit that accepts an input of a destination;

a vehicle-determining unit that determines the target vehicle among the plurality of vehicles on the basis of the destination;

a transit point-determining unit that determines a transit point on the basis of the destination; and

a boarding-determining unit that determines whether or not boarding of vehicle occupants into the target vehicle has been completed,

wherein the route notification unit notifies the target vehicle of a route toward the transit point when the vehicle-determining unit determines the target vehicle and notifies the target vehicle of a route toward the destination when boarding of the vehicle occupants into the target vehicle has been completed.

2. The vehicle assignment management device according to Claim 1, further comprising:

a number of vehicle occupants input unit that accepts an input of the number of vehicle occupants to be transported to the destination; and

a number of vehicles-determining unit that determines the number of target vehicles on the basis of the number of vehicle occupants,

wherein the vehicle-determining unit determines target vehicles corresponding to the number determined by the number of vehicles-determining unit such that all the target vehicles arrive at the destination within a predetermined time.

3. The vehicle assignment management device according to Claim 1 wherein the boarding-determining unit determines that the boarding of the vehicle occupants into the target vehicle has been completed when the vehicle arrives at the transit point, and doors of the vehicle are closed.

4. A mobility system, comprising:

a plurality of vehicles; and

the vehicle assignment management device according to any one of Claims 1 to 3,

wherein each of the plurality of vehicles runs on a route and within a permissible range on the basis of the route and the permissible range received from the vehicle assignment management device.

5. A vehicle assignment management method, comprising:

notifying a target vehicle of a route along which the target vehicle will run;

receiving position information at a plurality of timings from each of a plurality of vehicles including the target vehicle;

notifying the target vehicle of a permissible range representing a range in which the target vehicle can run on the basis of the position information of the plurality of vehicles at a plurality of timings;

accepting an input of a destination;

determining the target vehicle among the plurality of vehicles on the basis of the destination;

determining a transit point on the basis of the destination;

determining whether or not boarding of vehicle occupants into the target vehicle has been completed;

notifying the target vehicle of a route toward the transit point when the vehicle-determining unit determines the target vehicle; and

notifying the target vehicle of a route toward the destination when boarding of the vehicle occupants into the target vehicle has been completed.

6. A program causing a computer to execute

notifying a target vehicle of a route along which the target vehicle will run;

receiving position information at a plurality of timings from each of a plurality of vehicles including the target vehicle;

notifying the target vehicle of a permissible range representing a range in which the target vehicle can run on the basis of the position information of the plurality of vehicles at a plurality of timings;

accepting an input of a destination;

determining the target vehicle among the plurality of vehicles on the basis of the destination;

determining a transit point on the basis of the destination;

determining whether or not boarding of vehicle occupants into the target vehicle has been completed;

notifying the target vehicle of a route toward the transit point when the vehicle-determining unit determines the target vehicle; and

notifying the target vehicle of a route toward the destination when boarding of the vehicle occupants into the target vehicle has been completed.